

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample #
 Location Rec Park
 County Lake Township/City Painesville Date 9/13/07 Time 10:00
 Monitoring Group
 Or Individual St. Mary's Mon. Monks No. of Participants 6

Riffle Structure

Width of Riffle
 Water Depth
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl)
 Ammonia 0.2 ppm

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ 5 SAND ☐ 15 GRAVEL ☐ 15 COBBLES ☐ 63 BOULDERS ☐ 2
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

font tail center

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	A	Blackfly Larvae	—
Mayfly Nymphs	—	Dragonfly Nymphs	—	Aquatic Worms	—
Stonefly Nymphs	A	Crane fly Larvae	A	Midge Larvae	—
Dobsonfly Larvae	A	Beetle Larvae	A	Pouch Snails	A
Caddisfly Larvae	C	Crayfish	—	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails — (open right)	—	Clams	—		
		Sow Bugs	—		
NUMBER OF TAXA	5	NUMBER OF TAXA	3	NUMBER OF TAXA	1
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	6	(TIMES) INDEX VALUE	1
3		2		1	

Cumulative
Index
Value

22

Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample # _____
 Location Painesville Rec Park
 County Lake Township/City Painesville Date 9/13/07 Time 11:00
 Monitoring Group _____
 Or Individual St Mary's 7th Graders No. of Participants 5

Riffle Structure

Width of Riffle _____
 Water Depth _____
 Water Temp _____°C or _____°F

Chemical Analysis

Dissolved O₂ _____
 Acidity (pH) _____
 Salinity (Cl) 0.1ppm
 Ammonia _____

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Clear, colorless, odorless

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	—	Blackfly Larvae	—
Mayfly Nymphs	A	Dragonfly Nymphs	—	Aquatic Worms	A
Stonefly Nymphs	B	Cranefly Larvae	A	Midge Larvae	A
Dobsonfly Larvae	A	Beetle Larvae	D	Pouch Snails	A
Caddisfly Larvae	B	Crayfish	A	Leeches	—
Riffle Beetle Adult	A	Scuds	A		
Gill Snails — (open right)	—	Clams	—		
		Sow Bugs			
NUMBER OF TAXA	6	NUMBER OF TAXA	4	NUMBER OF TAXA	3
(TIMES) INDEX VALUE	18	(TIMES) INDEX VALUE	8	(TIMES) INDEX VALUE	3
3		2		VALUE 1	

Cumulative
Index
Value

29

Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample # 1
 Location Painesville Rec Park
 County LAKE Township/City Painesville Date 9/13/07 Time 10:00AM
 Monitoring Group _____
 Or Individual St. Mary's No. of Participants 7

Riffle Structure

Width of Riffle _____
 Water Depth _____
 Water Temp _____ °C or 63 °F

Chemical Analysis

Dissolved O₂ 10.0 mg/L
 Acidity (pH) _____
 Salinity (Cl) _____
 Ammonia _____

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>—</u>	Blackfly Larvae	<u>—</u>
Mayfly Nymphs	<u>B</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	<u>A</u>
Dobsonfly Larvae	<u>B</u>	Beetle Larvae	<u>—</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>B</u>	Crayfish	<u>A</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u>—</u>		
Gill Snails – (open right)	<u>—</u>	Clams	<u>A</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>6</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative
Index
Value

27

Stream Quality Assessment

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Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample # 1
 Location Painesville Rec Park
 County LAKE Township/City Painesville Date 9/13/07 Time 9:00AM
 Monitoring Group _____
 Or Individual St. Mary's No. of Participants 6

Riffle Structure

Width of Riffle _____
 Water Depth _____
 Water Temp _____°C or 65°F

Chemical Analysis

Dissolved O₂ 10 mg/L
 Acidity (pH) _____
 Salinity (Cl) _____
 Ammonia _____

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

Rainbow Darter

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>—</u>	Crane fly Larvae	<u>A</u>	Midge Larvae	<u>A</u>
Dobsonfly Larvae	<u>B</u>	Beetle Larvae	<u>—</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>B</u>	Crayfish	<u>—</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u>—</u>		
Gill Snails – (open right)	<u>A</u>	Clams	<u>—</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>2</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>4</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative
Index
Value

25

Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

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Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample #
 Location Painesville Rec Park
 County Lake Township/City Painesville Date 9/13/2006 Time 10:00
 Monitoring Group 5th Grade St Mary's Or Individual No. of Participants 4

Riffle Structure

Width of Riffle
 Water Depth
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl) 0.1 ppm
 Ammonia

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

clean, colorless, odorless

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>—</u>	Blackfly Larvae	<u>—</u>
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u>—</u>	Midge Larvae	<u>B</u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>B</u>	Crayfish	<u>A</u>	Leeches	<u>—</u>
Riffle Beetle Adult	<u>B</u>	Scuds	<u>A</u>		
Gill Snails — (open right)	<u>—</u>	Clams	<u>A</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>4</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>8</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative
Index
Value

29

Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

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 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample # _____

Location Rec Park

County _____ Township/City _____ Date ____/____/____ Time ____

Monitoring Group _____

Or Individual Mayflies ottob 5x Mary's No. of Participants _____

Riffle Structure

Width of Riffle _____

Water Depth _____

Water Temp ____°C or ____°F

Chemical Analysis

Dissolved O₂ _____

Acidity (pH) _____

Salinity (Cl) _____

Ammonia 2-3 ppm *

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
(1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

* yellow water

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	A	Blackfly Larvae	—
Mayfly Nymphs	B	Dragonfly Nymphs	—	Aquatic Worms	A
Stonefly Nymphs	A	Crane fly Larvae	A	Midge Larvae	A
Dobsonfly Larvae	A	Beetle Larvae	A	Pouch Snails	A
Caddisfly Larvae	C	Crayfish	A	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails — (open right)	—	Clams	A		
		Sow Bugs	—		
NUMBER OF TAXA	6	NUMBER OF TAXA	5	NUMBER OF TAXA	3
(TIMES) INDEX VALUE	18	(TIMES) INDEX VALUE	10	(TIMES) INDEX VALUE	3
3		2		1	

Cumulative Index Value

31

Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
Conservation District
125 East Erie St.
Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample #
 Location Recreation Park
 County Lake Township/City Painesville Date 9/13/07 Time 9:00 a.m.
 Monitoring Group St. Mary's School 5th No. of Participants 4
 Or Individual

Riffle Structure

Width of Riffle 30 ft.
 Water Depth 2 Ft.
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH) 8.0
 Salinity (Cl)
 Ammonia

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☒ BOULDERS ☒
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	
Mayfly Nymphs	<u>B</u>	Dragonfly Nymphs	<u> </u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u> </u>	Midge Larvae	<u> </u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>C</u>	Crayfish	<u> </u>	Leeches	<u> </u>
Riffle Beetle Adult	<u> </u>	Scuds	<u> </u>		
Gill Snails - (open right)	<u>A</u>	Clams	<u> </u>		
		Sow Bugs	<u> </u>		
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>2</u>	NUMBER OF TAXA	<u>2</u>
(TIMES) INDEX VALUE	<u>19</u>	(TIMES) INDEX VALUE	<u>4</u>	(TIMES) INDEX VALUE	<u>2</u>
3		2		1	

Cumulative Index Value

24

Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 6.2 Stream Grand River Sample #
 Location Rec Park
 County Lake Township/City Painesville Date 9/13/07 Time 10 AM
 Monitoring Group SMS Or Individual 7th grade No. of Participants 6

Riffle Structure

Width of Riffle 2-3'
 Water Depth 1'
 Water Temp °C or 64 °F

Chemical Analysis

Dissolved O₂
 Acidity (pH) 7
 Salinity (Cl)
 Ammonia

Coliform sample taken?

Yes ☐ No ☒ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ 2 SAND ☐ 2 GRAVEL ☐ 35 COBBLES ☐ 60 BOULDERS ☐ 1
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

phosphate 0.5
nitrate 1.0
Turbidity 35 JT4

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>B</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs		Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae		Midge Larvae	<u>B</u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>C</u>	Crayfish		Leeches	
Riffle Beetle Adult	<u>A</u>	Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>2</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>4</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		VALUE 1	

Cumulative
Index
Value

25

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